

# CSC 4610 – PHP Practice 1

In this practice you will be working with the basics of the PHP language. For this assignment you can create everything in one PHP file. You must submit this file on Canvas to receive credit.

## Basics

In your page create a PHP variable *name*, which you will set with your name. On your page you will display a main heading that says “Welcome to the Party X”, where X will be replaced with the name in your name variable.

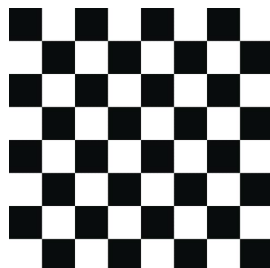
## Triangle

Next write a loop to create the following triangle and display it on the page. You may use whatever type of loop you would like.

```
*
* *
* * *
* * * *
* * * * *
* * * * *
* * * * *
* * * * *
```

## Chess Board

Next you will be creating a checkerboard using an HTML table. Squares on the board should be 50px by 50px. You may handle this with custom CSS or you can in-line the CSS for this task.



## Factorial Function

For this part of the practice, create a recursive function *factorial* to take in a number and return the factorial of that number. In your page create a section called “Factorials” and use your function to display the following factorial results. 5!, 10!, 20!.

## Water Bill

Create another function, *calculate\_bill*, that takes in a parameter for the number of units. The first 50 units the cost is 3.50 per unit. For the next 100 units, the cost is 4.00 per unit. For the next 100 units the cost is 5.20 per unit. For all the remaining units the cost is 6.50 per unit.

On the page make a section for “Water Bill”. You will get the value for units from the GET variables passed in on the page. You will then use your function to calculate the cost and display “Your water bill is \$X.XX”. Make sure the output is formatted to two decimal places.